



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**PATENT**

ATTY DOCKET NO.: 5649-1270  
DATE: March 23, 2004



**UTILITY PATENT APPLICATION TRANSMITTAL LETTER  
AND FEE TRANSMITTAL FORM (37 CFR § 1.53(b))**

Mail Stop PATENT APPLICATION  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Transmitted herewith for filing under 37 CFR § 1.53(b) is:

- ☒ a patent application  
☐ a Continuation ☐ a Divisional ☐ a Continuation-in-Part (CIP) Application of prior application no.: \_\_\_\_\_; filed \_\_\_\_\_, the disclosure of which is incorporated herein by reference in its entirety.  
☒ and claims priority to Korean Patent Application Serial No. 10-2003-0021419; filed April 4, 2003.

Inventor(s) or Application Identifier:

**Se-ho Lee**

Entitled: **LOW-CURRENT AND HIGH-SPEED PHASE-CHANGE MEMORY DEVICES AND METHODS OF DRIVING THE SAME**

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Enclosed are:

1. ☒ Application Transmittal Letter and Fee Transmittal Form (*A duplicate is enclosed for fee processing*)
2. ☒ 22 pages of Specification (including 41 claims)
3. ☒ 9 sheet of Formal Drawings (35 USC 113)
4. ☒ Oath or Declaration
  - a. ☒ newly executed (*original or copy*)
  - b. ☐ copy from prior application (37 CFR 1.63(d) (*for continuation/divisional*) [Note Box 6 Below])
  - c. ☐ DELETION OF INVENTOR(S) (*Signed statement deleting inventor(s) named in the prior application*)
5. ☐ Application Data Sheet. See 37 CFR 1.76
6. ☐ Incorporation By Reference (*useable if box 4b is checked*)

The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.
7. ☐ Microfiche Computer Program (*Appendix*)

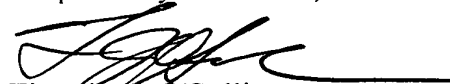
8. ☒ Assignment papers (*cover sheet(s) and document(s)*)  
 9. ☐ Applicant claims small entity status. See 37 CFR § 1.27.  
 10. ☐ Information Disclosure Statement, PTO-1449, and \_\_\_\_ reference(s) cited  
 11. ☒ Preliminary Amendment (*Please enter all claim amendments prior to calculating the filing fee.*)  
 12. ☐ English Translation Document  
 13. ☒ Certified Copy of Korean Application No. **10-2003-0021419** Filed **April 4, 2003**  
 14. ☐ Sequence Listing/ Sequence Listing Diskette  
     a. ☐ computer readable copy  
     b. ☐ paper copy  
     c. ☐ statement in support  
 15. ☐ An Associate Power of Attorney  
 16. ☒ Return Receipt Postcard (MPEP 503) (*Should be specifically itemized*)  
 17. ☐ Other:

The fee has been calculated as shown below:

	Column 1 No. Filed	Column 2 No. Extra	Small Entity Rate      Fee	Large Entity Rate      Fee
BASIC FEE			\$375.00	\$ 770.00
TOTAL CLAIMS	41 - 20 =	21	x 09 = \$	x 18 = \$378.00
INDEP CLAIMS	6 - 3 =	3	x 44 = \$	x 86 = \$258.00
<input type="checkbox"/> MULTIPLE Dependent Claims Presented			+ 140 = \$	+ 280 = \$1406.00
<i>If the difference in Col. 1 is less than zero, Enter "0" in Col. 2</i>			Total \$	Total \$

- ☐ A check in the amount of \$ to cover the filing fee is enclosed.  
☒ A check in the amount of **\$1446.00** is enclosed to cover the filing fee and a check in the amount of **\$40.00** to cover the Assignment Recordation fee is enclosed.  
☐ Please charge my Deposit Account No. 50-0220 in the amount of (filing fee plus \$40.00 to cover Assignment Recordation).  
☒ The Commissioner is hereby authorized to credit overpayments or charge the following fees associated with this communication to Deposit Account No. 50-0220:  
     a. ☒ Additional filing fees under 37 CFR 1.16 for presentation of extra claims.  
     b. ☒ Additional patent application processing fees under 37 CFR 1.17.

Respectfully submitted,

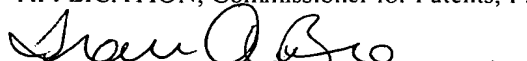
  
 Timothy J. O'Sullivan  
 Registration No. 35,632

#### CERTIFICATE OF EXPRESS MAILING

Express Mail Label No. EV 381444835US

Date of Deposit: March 23, 2004

I hereby certify that this correspondence is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR § 1.10 on the date indicated above and is addressed to: Mail Stop PATENT APPLICATION, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

  
 Traci A. Brown